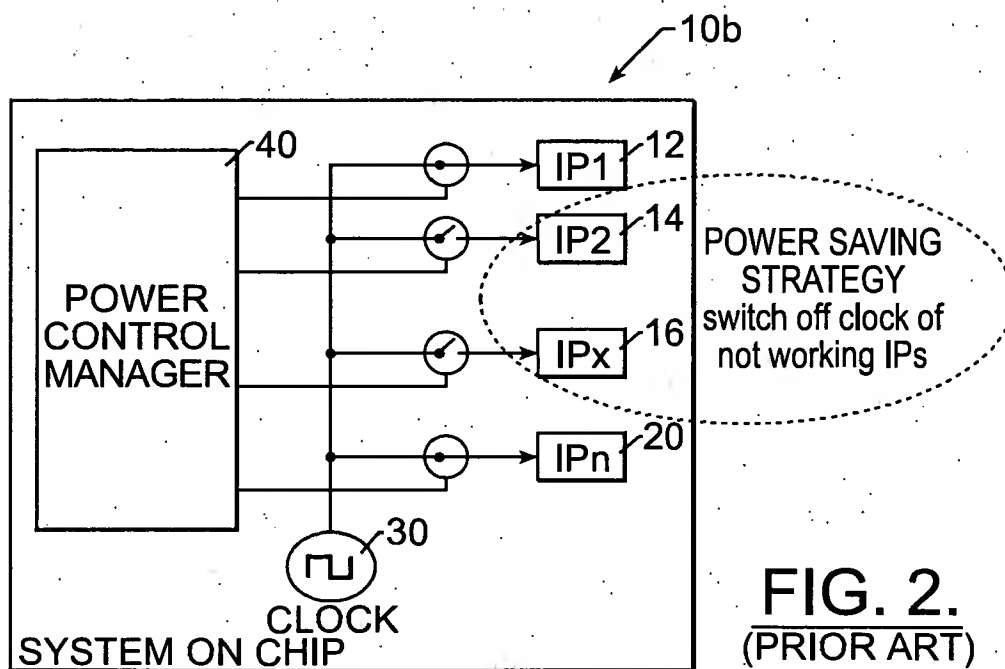
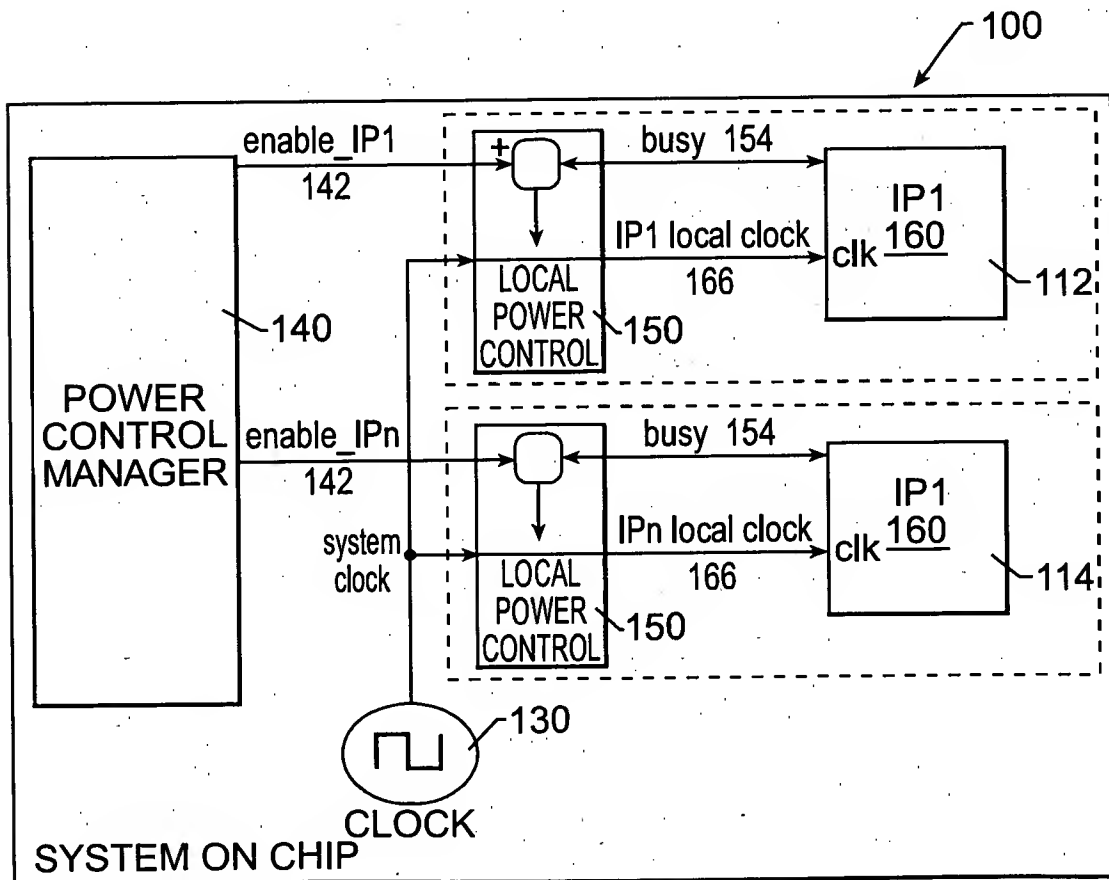
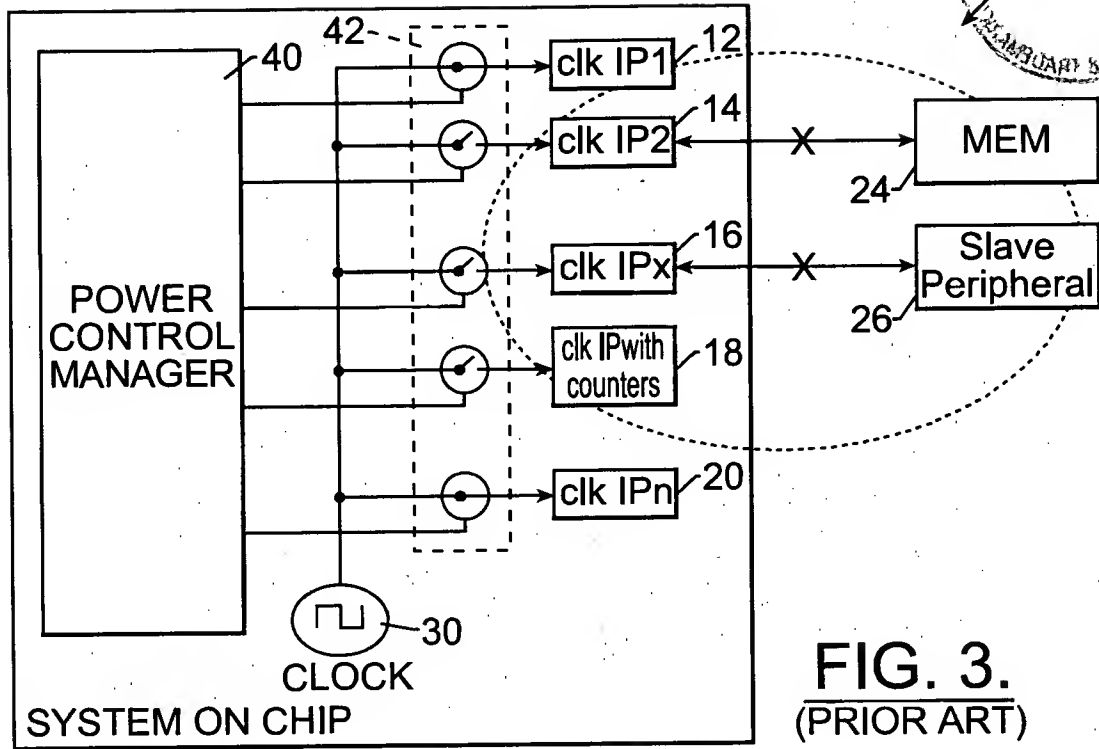


**FIG. 1.**  
(PRIOR ART)



**FIG. 2.**  
(PRIOR ART)



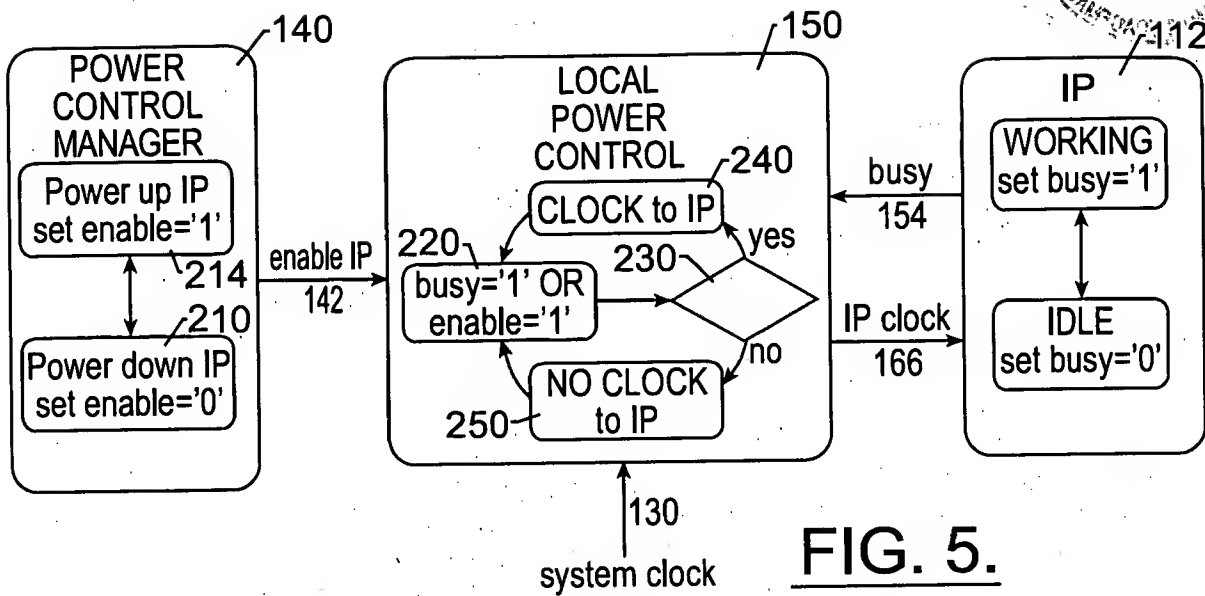


FIG. 5.

Entering power down:

Power Down Manager:

for each IP of System

If 'power up' IP

set IP enable to '1';

else:

set IP enable to '0';

end for each;

IP:

If 'idle' then:

set busy to '0';

else:

set busy to '1';

end if;

Local Power Control:

If "IP busy='1' or IP enable='1'" then:

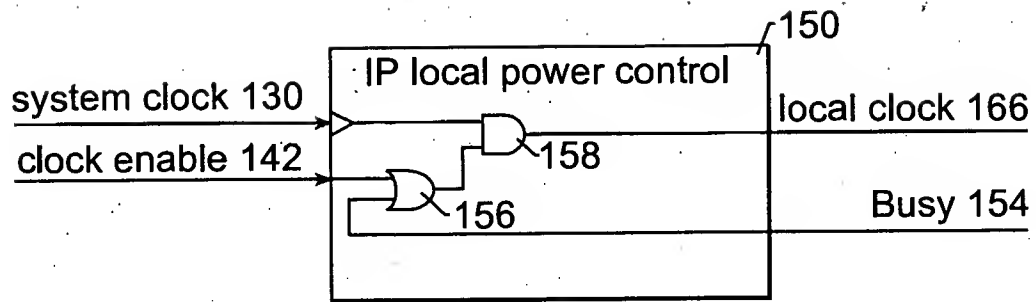
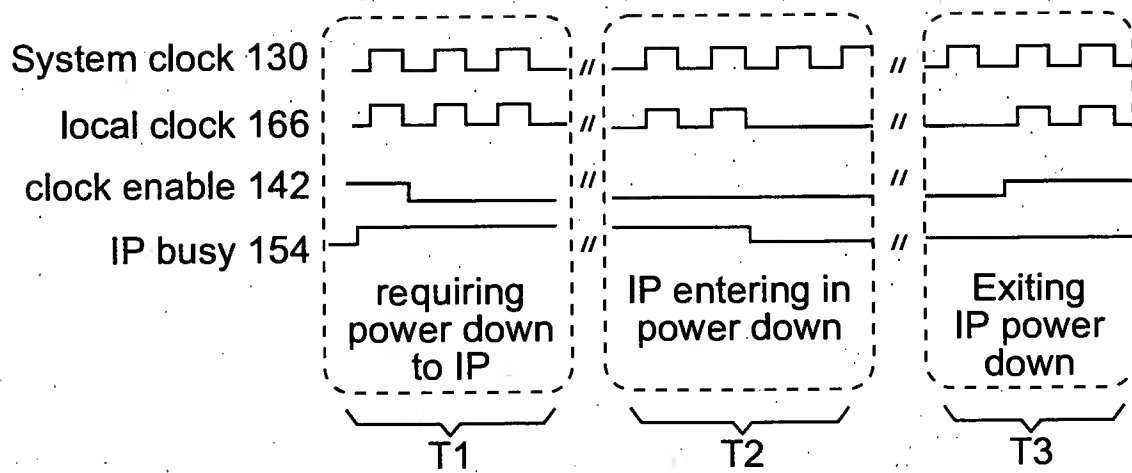
deliver clock to IP;

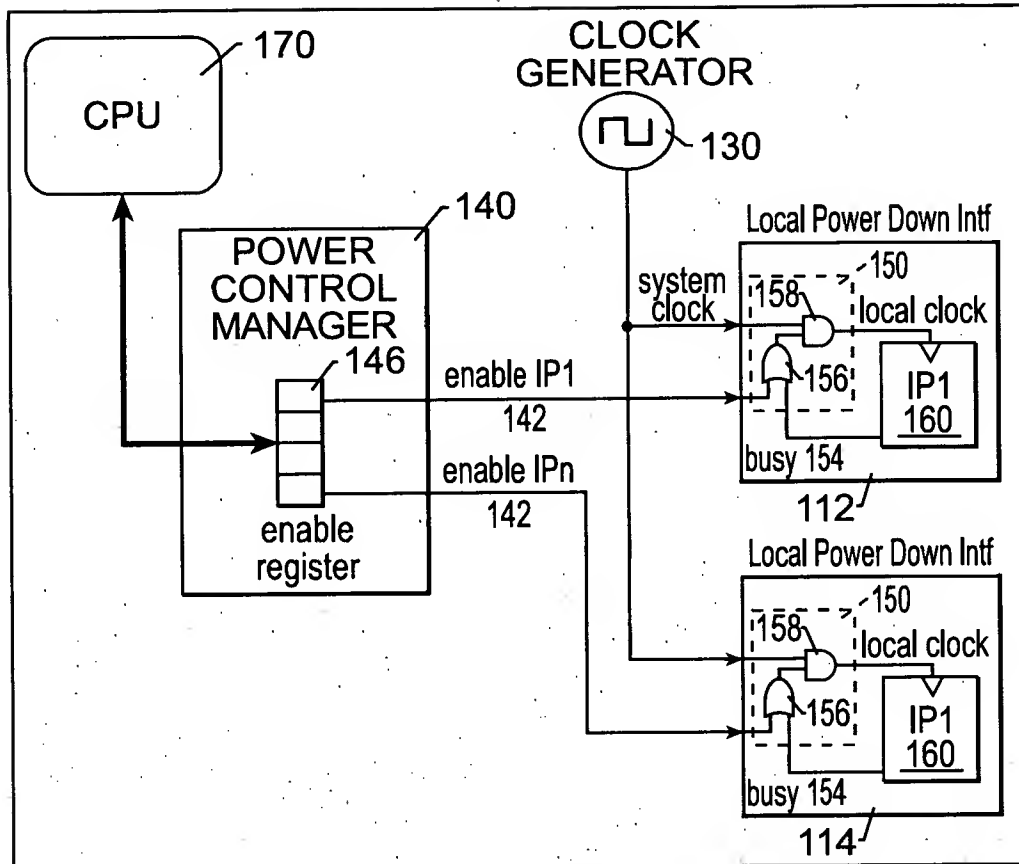
else:

stop clock to IP

end if;

FIG. 6.

FIG. 7.FIG. 8.

FIG. 9.